

surrounded by a guide sleeve 12. FIG. 11 shows a detailed view of the second embodiment for mounting the operation knob 31 on a spindle 6. The control knob 31 has an internal thread 38, with which the control knob 31 can be pushed onto a spindle 6 with a desired length to compensate for different mounting depths of a diverter valve. At one longitudinal end, the spindle 6 has a lateral barb 39 extending away from the longitudinal end, which engages with the internal thread 38 of the control knob 31 when the control knob 31 is pushed onto a spindle 6, so that the control knob 31 can no longer detach from the spindle 6. Furthermore, the control knob has a lateral pin 40, which engages in a longitudinal groove 41 of the guide sleeve so as to prevent rotation of the control knob 31.

[0058] FIG. 12 shows a third embodiment for mounting a control knob 31 on a spindle 6. Here, the spindle 6 is also surrounded by a guide sleeve 12. FIG. 13 shows a detailed view of the third embodiment for mounting the control knob 31 on the spindle 6. An adjusting screw 42 can be screwed into a longitudinal end of the spindle 6 to compensate for different mounting depths of a diverter valve 1, and, subsequently, the control knob 31 can be mounted onto the adjusting screw 42. For this purpose, the adjusting screw 42 has an external thread 43.

[0059] FIG. 14 shows a fourth embodiment for mounting a control knob 31 on a spindle 6. FIG. 15 shows a detailed view of the fourth embodiment for mounting the control knob 31 on a spindle 6. The control knob 31 has latching hooks 44 at one longitudinal end by means of which the control knob 31 can be latched in a desired depth on an outer thread 43 of the spindle 6 to the spindle 6 to compensate for different mounting depths of the diverter valve 1.

[0060] FIG. 16 shows a fifth embodiment for mounting a control knob 31 on a spindle 6. FIG. 17 shows a detailed view of the fifth embodiment for mounting the control knob 31 on a spindle 6. In a longitudinal end of the spindle 6, an adjusting screw 42 can be screwed on a spindle 6 at a desired height to compensate for different mounting depths of the diverter valve 1. Subsequently, the control knob 31 is mounted on the adjusting screw 42 and the spindle 6.

[0061] FIG. 18 shows a sixth embodiment for mounting a control knob 31 on a spindle 6. The spindle 6 has a cross section 46 at one longitudinal end, which is not round. In the embodiment shown here, in this area the spindle 6 has two opposing flattened portions 45. FIG. 19 shows a plan view of a first insert 47. The insert 47 is sleeve-shaped and has an inner contour 48, which (substantially) corresponds to an outer contour 49 of the spindle 6 shown in FIG. 18. In this way, the insert 47 can be mounted on the longitudinal end of the spindle 6 to compensate for different mounting depths of the valve body 1. At a desired height, the insert 47 is rotated by 90° for mounting on a spindle 6, so that the insert 47, as shown in FIG. 20, is elastically deformed. The insert 47 is then fixed non-positively on a spindle 6.

[0062] FIG. 21 shows a seventh embodiment for mounting a control knob 31 on a spindle 6. The spindle 6 has an external thread 43. In the region of the external thread 43, the spindle 6 has two opposite flattened portions 45 on which no external thread 43 is formed. FIG. 22 shows a plan view of a second insert 47. The insert 47 is likewise of sleeve-shaped design and has an inner contour 48 which (substantially) corresponds to an outer contour 49 of the spindle 6 shown in FIG. 21. In addition, the insert 47 has an internal thread 38. The insert 47 can be mounted on the longitudinal

end of the spindle 6 and is rotatable by 90° at a desired position to compensate for different mounting depths of the diverter valve 1, so that the internal thread 38 of the insert engages in the external thread 43 of the spindle 6.

[0063] FIG. 23 shows an eighth embodiment for mounting a control knob 31 on a spindle 6. The control knob 31 can be mounted on a longitudinal end of the spindle 6 at a desired height to compensate for different mounting depths of the diverter valves 1 and can be secured on a spindle 6 with a screw 34. For this purpose, a hole 50 can be formed in a guide sleeve 12 for the screw 34.

[0064] FIG. 24 shows a ninth embodiment for mounting a control knob 31 on a spindle 6. The spindle 6 has an external thread 43 onto which the control knob 31 can be screwed at a desired height to compensate for different mounting depths of a diverter valve 1.

[0065] The proposed diverter valve and the concealed installation body ensure the uniform appearance of a sanitary fitting.

[0066] The invention being thus described, it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the invention, and all such modifications as would be obvious to one skilled in the art are to be included within the scope of the following claims.

What is claimed is:

1. A diverter valve for a sanitary fitting, the diverter valve comprising:

- a diverter valve housing;
- a valve body for a targeted supply of a fluid to at least two diverter valve outlets; and
- a spindle to actuate the valve body, wherein said spindle is biased such that after cutting the spindle to length, the spindle is displaced from the diverter valve housing by a defined travel.

2. The diverter valve according to claim 1, wherein the spindle is biased by an elastic element.

3. The diverter valve according to claim 1, wherein the valve body is displaced against a first valve seat by the elastic element.

4. The diverter valve according to claim 2, wherein the valve body is displaced counter an actuating force of the elastic element against a second valve seat.

5. The diverter valve according to claim 1, wherein the spindle is biased against a stop prior to being cut to length.

6. The diverter valve according to claim 5, wherein the stop is fixed to the diverter valve housing or to a guide sleeve of the spindle.

7. The diverter valve according to claim 5, wherein the stop is adapted to be removed by cutting the spindle to length.

8. A concealed installation body for a sanitary fitting, comprising:

- a housing; and
- a diverter valve according to claim 1, the diverter valve being at least partially disposed in the housing.

9. A method for mounting a concealed installation body according to claim 8, the method comprising:

- mounting the concealed installation body at least partially in a wall or a support; and